

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (currently amended) In a multi-shot mold having at least a first shot cavity and a second shot cavity for receiving injected plastic material to form a completed plastic part which is ejected, the improvement comprising:

an indexing plate rotatably mounted on the injection molder injecting the first shot cavity and second shot cavity prior to ejection of the completed plastic part;

wherein the injection molding machine is provided with at least a first shot cavity and a second shot cavity and an ejector station;

wherein the ejector station provides a stripper plate separate from the indexing plate to remain rotationally fixed during rotation of the indexing plate, the stripper plate engaging a molded part at the ejection station to remove the molded part; and

wherein the stripper plate is a cradle that grips a side of engages the molded part along an axis of movement from a direction perpendicular to a plane of rotation of the indexing plate and then moves along the plane of rotation to eject the part.

Claim 2. (cancelled)

Claim 3. (original) The improvement of claim 1, wherein the indexing plate has a first core retainer, a second core retainer, and a third core retainer, each of which is selectively cooperable with the first shot cavity, the second shot cavity and the ejector station.

Claim 4. (original) The improvement of claim 1, wherein the indexing plate is rotatable in 120° increments.

Claim 5. (original) The improvement of claim 1, wherein the injection molding machine further includes a means for incrementally advancing the indexing plate.

Claim 6. (original) The improvement of claim 1, wherein the injection mold is equipped with an extension plate having a pair of guide bars with stops fixed thereon and an ejector plate is slidably mounted on the guide bars.

Claim 7. (previously presented) The improvement of claim 6, wherein the ejector plate supports the stripper plate for stripping completed plastic components from the indexing plate.

Claim 8. (original) The improvement of claim 6, including a limit switch for controlling the travel of the ejector plate.

Claim 9. (original) The improvement of claim 1, wherein the completed plastic components are in the form of over-molded pen barrels.

Claim 10. (withdrawn) A rotary indexing plate assembly used in producing multi-shot plastic components, the assembly comprising:

a support plate having a first shot cavity and a second shot cavity and an ejector station fixed thereon for receiving plastic injection material to form a first shot part and a second shot part, respectively:

an ejector station including an ejector plate having an ejector cradle slidably mounted relative to a portion of the support plate; and

an indexing plate rotatably mounted on the support plate, the indexing plate having a first core retainer, a second core retainer and a third core retainer, each of the retainers being selectively alignable with the first shot cavity, the second shot cavity and the ejector station;

whereby, when plastic injection material fills the first shot cavity and the second shot cavity, completed plastic components are simultaneously removed via the ejector cradle engaging the plastic components at the ejector station.

Claim 11. (withdrawn) The rotary indexing plate assembly of claim 10, wherein the indexing plate is rotatable incrementally to move the first shot part from the first shot cavity to the second shot cavity, move the second shot part from the second shot cavity to the ejector station and move the core retainer from the ejector station to the first shot cavity.

Claim 12. (cancelled)

Claim 13. (withdrawn) The improvement of claim 1 wherein the stripper plate engaged the molded part from a direction perpendicular to a plane of rotation of the indexing plate;

in a multi-shot mold having at least a first shot cavity and a second shot cavity for receiving injected plastic material to form a completed plastic part which is ejected, the improvement comprising:

an indexing plate rotatably mounted on the injection molder injecting the first shot cavity and second shot cavity prior to ejection of the completed plastic part;

wherein the injection molding machine is provided with at least a first shot cavity and a second shot cavity and an ejector station;

wherein the ejector station provides a stripper plate engaging a molded part at the ejection station to remove the molded part;

wherein the stripper plate engages the molded part from a direction perpendicular to a plane of rotation of the indexing plate.